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(56) Documents cited
GB 2126180 A
US 4622833 A

GB 0278509 A
US 4175410 A

WO 87/01669 A1

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(54) Road vehicle security device

(57) A road vehicle security device 1 is provided with a pair of oppositely-disposed road wheels 3 with apertured wheel discs 4 comprising a pair of co-operating members 5, 6 for disposal in the wheel disc apertures 7. The members 5, 6 have enlarged outer ends 5a, 6a shaped so that these ends are prevented by the wheel discs 4 from being drawn through the apertures 7 in directions (see arrow 8) towards each other. The members 5, 6 also have inner ends 5b, 6b formed with holes 9, 10 so that the inner ends can be interconnected, in a secure manner, by a padlock.

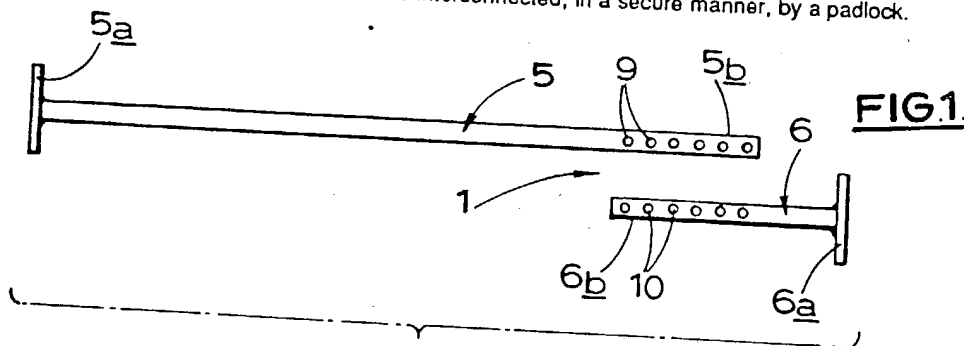
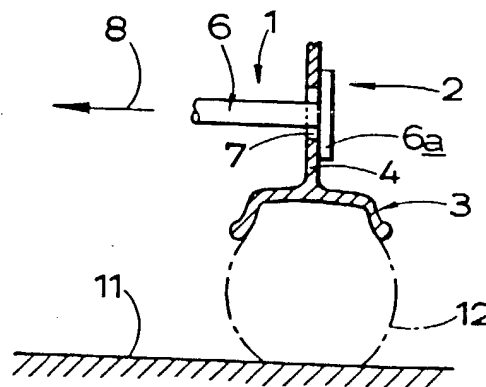


FIG. 2



At least one drawing originally filed was informal and the print reproduced here is taken from a later filed formal copy.
The claims were filed later than the filing date within the period prescribed by Rule 25(1) of the Patents Rules 1982.

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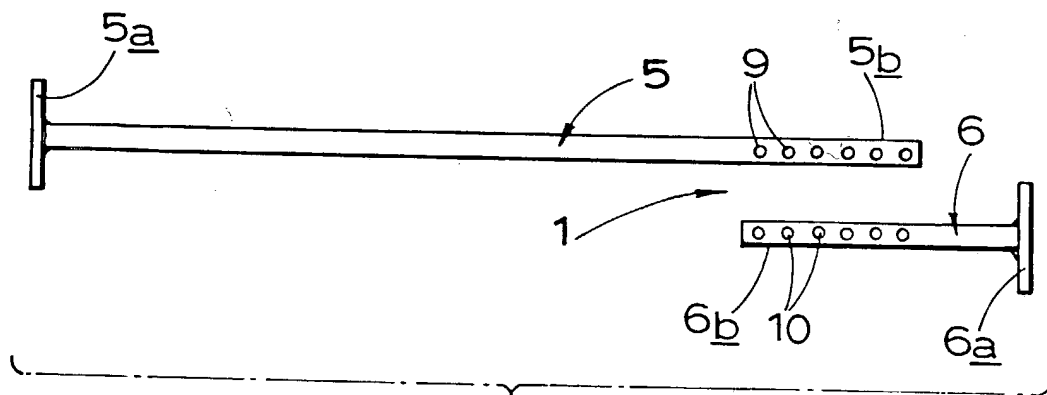


FIG. 1.

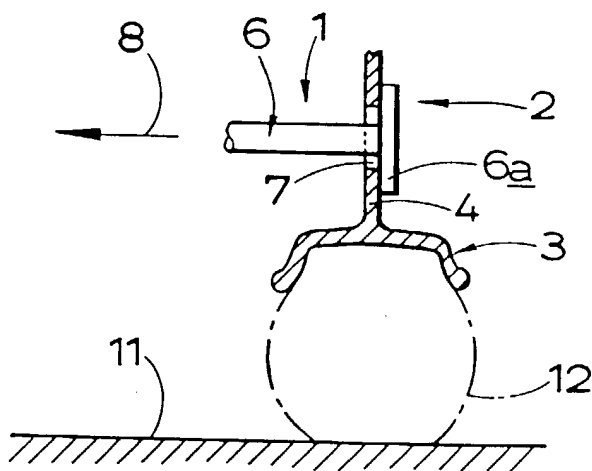


FIG. 2.

IMPROVEMENTS IN OR RELATING TO ROAD
VEHICLE SECURITY DEVICES

5 This invention relates to road vehicle security devices and is concerned with security devices for road vehicles such as cars, lorries and caravans wherein oppositely disposed pairs of road wheels are provided.

10 The invention is further concerned with such road vehicles when employing road wheels wherein apertures are formed in the wheel discs upon which the tyres are mounted.

15 According to the invention, a road vehicle security device, for use with a road vehicle provided with a pair of oppositely disposed road wheels with apertured wheel discs, comprises a pair of cooperating members for disposal in the wheel disc apertures, the members having enlarged outer ends shaped so that said
20 outer ends are prevented by the wheels discs from being drawn through the apertures in directions towards each other and inner ends formed so that said inner ends can be interconnected.

25 The said outer ends are preferably of "T" shape.

The said inner ends may be formed with holes, which when aligned, can be interconnected by the hasp of a padlock.

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The said inner ends may be formed so as to interfit in a telescopic manner.

35 An embodiment of the invention will now be described by way of example only, wherein:-

Figure 1 is a side view of the security device, with the members disconnected, and

5 Figure 2 is a fragmentary side view, in section, of a road wheel with one of the members in place.

10 With reference to Figures 1 and 2, a road vehicle security device 1, for use with a road vehicle 2 provided with a pair (only one being shown) of oppositely disposed road wheels 3 with apertured wheel discs 4 is shown thereby.

15 The device 1 comprises a pair of cooperating members 5,6, for disposal in the wheel disc apertures 7. The members 5,6 have enlarged outer ends 5a,6a shaped so that these ends are prevented by the wheel discs 4 from being drawn through the apertures 7 in directions (see arrow 8) towards each other. The members 5,6 also have inner ends 5b,6b
20 formed with holes 9,10 so that the inner ends can be interconnected, in a secure manner.

25 The members 5,6, each comprise a pair of metal bars welded together. The body of a member comprises a steel bar of 25 mm x 6 mm section, and the outer end thereof, a steel bar of 12 mm x 12 mm section. The outer ends 5a,6a are welded to the bodies of the members 5,6. This arrangement gives the outer ends a "T" shape.

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 The lengths of the members 5,6 differ. The wheels 3 have inflatable tyres 12 mounted on the discs 4.

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 In use, the members 5,6, are inserted inwardly through the apertures 7 of the oppositely disposed

wheels 3 where contact between the ends 5a,6a and the parts of the wheel discs surrounding the apertures prevents further inward insertion. The members 5,6 are pulled together as far as possible in an overlapping manner, and the holes 9,10 aligned. A padlock (not shown) is then used to interconnect the members 5,6 by way of the aligned holes.

Should an attempt now be made to move the vehicle 2 without first disconnecting the device 1, rotation of the wheels 3 is soon arrested by contact of the device 1 with the underside of the vehicle.

Although it may be possible for a thief to cut through either one of the members 5,6, or the hasp of the padlock, such action must take some time, particularly as it has to take place in the small space available between the member and the ground 11.

Because of the time involved, a potential thief is likely to move on to undertake an easier theft.

The members 5,6 of the device 1 could be made to interfit in a telescopic manner. Such a modification involves making the members of circular cross-section.

CLAIMS

5 1. A road vehicle security device, for use with a road vehicle
provided with a pair of oppositely-disposed road wheels with
apertured wheel discs, comprising a pair of co-operating members for
disposal in the wheel disc apertures, the members having enlarged
outer ends shaped so that said outer ends are prevented by the
10 wheels discs from being drawn through the apertures in directions
towards each other and inner ends formed so that said inner ends can
be interconnected.

15 2. A device as claimed in claim 1, wherein the said outer ends are
of 'T'-shape.

3. A device as claimed in claim 1 or 2, wherein the said inner
ends are formed with holes which, when aligned, can be inter-
connected by the hasp of a padlock.

20 4. A device as claimed in claim 1, 2 or 3, wherein the said inner
ends are formed so as to interfit in a telescopic manner.

25 5. A road vehicle security device, substantially as hereinbefore
described, with reference to the accompanying drawings.

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